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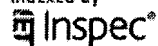
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Berchtold, S.; Glavina, B.;  
[Intelligent Robots and Systems '94. 'Advanced Robotic Systems and the Real ' Proceedings of the IEEE/RSJ/GI International Conference on](#)  
Volume 3, 12-16 Sept. 1994 Page(s):1796 - 1802 vol.3  
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[Data Compression Conference, 2002. Proceedings. DCC 2002](#)  
 2-4 April 2002 Page(s):467  
 Digital Object Identifier 10.1109/DCC.2002.1000010  
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2-4 April 2002 Page(s):467  
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1 [The OODB path-method generator \(PMG\) using access weights and precomputed access relevance](#)



Ashish Mehta, James Geller, Yehoshua Perl, Erich Neuhold

February 1998 **The VLDB Journal — The International Journal on Very Large Data**

**Bases**, Volume 7 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available: [pdf\(265.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

A *path-method* is used as a mechanism in object-oriented databases (OODBs) to retrieve or to update information relevant to one class that is not stored with that class but with some other class. A path-method is a method which traverses from one class through a chain of connections between classes and accesses information at another class. However, it is a difficult task for a casual user or even an application programmer to write path-methods to facilitate queries. This is because it mig ...

**Keywords:** Access relevance, Access weight, OODB queries, Object-oriented databases, Path-method, Traversal algorithms

2 [The OODB path-method generator \(PMG\) using precomputed access relevance](#)



Ashish Mehta, James Geller, Yehoshua Perl, Erich Neuhold

December 1993 **Proceedings of the second international conference on Information and knowledge management CIKM '93**

**Publisher:** ACM Press

Full text available: [pdf\(1.12 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

3 [Databases: ODMG extension of composite objects in OODBMS: a proposal](#)



Xiaoyan Lu, J. Wenny Rahayu, David Taniar

February 2002 **Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications CRPIT '02**

**Publisher:** Australian Computer Society, Inc.

Full text available: [pdf\(859.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes an extension of ODMG (Object Data Management Group) standard for the Object-Oriented Database Management Systems (OODBMS). The extension concentrates on composite objects, which provides a new paradigm, and also improves

traditional OODBMS to meet the needs arising from the aggregation hierarchy. Currently in ODMG, the semantic of the aggregation relationship is explored at the modelling stage and is described in natural language. To formally specify and verify an aggregation ...

**Keywords:** ODL, ODMG, OIF, OODBMS, aggregation hierarchy, composite objects

#### 4 Traversals of object structures: Specification and Efficient Implementation



Karl Lieberherr, Boaz Patt-Shamir, Doug Orleans

March 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,  
Volume 26 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(333.93 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Separation of concerns and loose coupling of concerns are important issues in software engineering. In this paper we show how to separate traversal-related concerns from other concerns, how to loosely couple traversal-related concerns to the structural concern, and how to efficiently implement traversal-related concerns. The stress is on the detailed description of our algorithms and the traversal specifications they operate on. Traversal of object structures is a ubiquitous routine in most types ...

**Keywords:** Aspect-oriented programming, Law of Demeter, adaptive programming, class graphs, object graphs, strategy graphs, structure-shy software

#### 5 DDD papers: XAspects: an extensible system for domain-specific aspect languages



Macneil Shonle, Karl Lieberherr, Ankit Shah

October 2003 **Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '03**

**Publisher:** ACM Press

Full text available: [pdf\(218.84 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Current general aspect-oriented programming solutions fall short of helping the problem of separation of concerns for several concern domains. Because of this limitation good solutions for these concern domains do not get used and the opportunity to benefit from separation of these concerns is missed. By using XAspects, a plug-in mechanism for domain-specific aspect languages, separation of concerns can be achieved at a level beyond what is possible for object-oriented programming languages. As ...

**Keywords:** aspect-oriented programming, domain-specific languages, generative programming, language extensions

#### 6 Using graphs for fast error term approximation of time-varying datasets



C. Nuber, E. C. LaMar, V. Pascucci, B. Hamann, K. I. Joy

May 2003 **Proceedings of the symposium on Data visualisation 2003 VISSYM '03**

**Publisher:** Eurographics Association

Full text available: [pdf\(3.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

We present a method for the efficient computation and storage of approximations of error tables used for error estimation of a region between different time steps in time-varying datasets. The error between two time steps is defined as the distance between the data of these time steps. Error tables are used to look up the error between different time steps of a time-varying dataset, especially when run time error computation is expensive. However, even the generation of error tables itself can be ...

7 Technical poster session 1: multimedia analysis, processing, and retrieval: Mining emergent structures from mixed media For content retrieval



Jamie Ng, Kanagasabai Rajaraman, Edward Altman

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia MULTIMEDIA '04**

**Publisher:** ACM Press

Full text available: pdf(325.63 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper we present a novel approach for retrieval of thematic video content from mixed media. Based on the principles of conceptual blending, information from different media is mined for emergent structures from mixed media. We have built a system, called OntoMedia, to test the efficacy of this approach over traditional methods for media retrieval. The system employs an ontology as a unified indexing scheme for associated text documents for the mixed media content. By applying graph th ...

**Keywords:** mixed media mining, ontology, unified indexing, video retrieval

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1 **Databases: ODMG extension of composite objects in OODBMS: a proposal**

Xiaoyan Lu, J. Wenny Rahayu, David Tanar

February 2002 **Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications CRPIT '02**

**Publisher:** Australian Computer Society, Inc.

Full text available: [pdf\(859.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes an extension of ODMG (Object Data Management Group) standard for the Object-Oriented Database Management Systems (OODBMS). The extension concentrates on composite objects, which provides a new paradigm, and also improves traditional OODBMS to meet the needs arising from the aggregation hierarchy. Currently in ODMG, the semantic of the aggregation relationship is explored at the modelling stage and is described in natural language. To formally specify and verify an aggregation ...

**Keywords:** ODL, ODMG, OIF, OODBMS, aggregation hierarchy, composite objects

2 **Design of an external schema facility to define and process recursive structures**

Eric K. Clemons

June 1981 **ACM Transactions on Database Systems (TODS)**, Volume 6 Issue 2

**Publisher:** ACM Press

Full text available: [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The role of the external schema is to support user views of data and thus to provide programmers with easier data access. This author believes that an external schema facility is best based on hierarchies, both simple and recursive. After a brief introduction to an external schema facility to support simple hierarchical user views, the requirements for a facility for recursive hierarchies are listed and the necessary extensions to the external schema definition language are offered. < ...

**Keywords:** ANSI SPARC architectures, external schemata, recursive data structures, user views

3 **Research track paper: Robust boosting and its relation to bagging**

Saharon Rosset



August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

**Publisher:** ACM Press

Full text available: [pdf\(548.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Several authors have suggested viewing boosting as a gradient descent search for a good fit in function space. At each iteration observations are re-weighted using the gradient of the underlying loss function. We present an approach of weight decay for observation weights which is equivalent to "robustifying" the underlying loss function. At the extreme end of decay this approach converges to Bagging, which can be viewed as boosting with a linear underlying loss function. We illustrate the practice ...

**Keywords:** bagging, boosting, robust fitting

4 Dynamic expression trees and their applications ☐

Robert F. Cohen, Roberto Tamassia

March 1991 **Proceedings of the second annual ACM-SIAM symposium on Discrete algorithms SODA '91**

**Publisher:** Society for Industrial and Applied Mathematics

Full text available: [pdf\(934.44 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

5 Performance of data structures for small sets of strings ☐

Steffen Heinz, Justin Zobel

January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 ACSC '02**, Volume 24 Issue 1

**Publisher:** Australian Computer Society, Inc., IEEE Computer Society Press

Full text available: [pdf\(929.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Fundamental structures such as trees and hash tables are used for managing data in a huge variety of circumstances. Making the right choice of structure is essential to efficiency. In previous work we have explored the performance of a range of data structures---different forms of trees, tries, and hash tables---for the task of managing sets of millions of strings, and have developed new variants of each that are more efficient for this task than previous alternatives. In this paper we test the ...

**Keywords:** binary search tree, burst trie, data structures, inverted index, splay tree, trie

6 Randomized parallel algorithms for backtrack search and branch-and-bound computation ☐



Richard M. Karp, Yanjun Zhang

July 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 3

**Publisher:** ACM Press

Full text available: [pdf\(1.85 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** distributed parallel computation

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**1 Databases: ODMG extension of composite objects in OODBMS: a proposal**



Xiaoyan Lu, J. Wenny Rahayu, David Taniar

February 2002 **Proceedings of the Fortieth International Conference on Tools Pacific: Objects for internet, mobile and embedded applications CRPIT '02**

**Publisher:** Australian Computer Society, Inc.

Full text available: [pdf\(859.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper proposes an extension of ODMG (Object Data Management Group) standard for the Object-Oriented Database Management Systems (OODBMS). The extension concentrates on composite objects, which provides a new paradigm, and also improves traditional OODBMS to meet the needs arising from the aggregation hierarchy. Currently in ODMG, the semantic of the aggregation relationship is explored at the modelling stage and is described in natural language. To formally specify and verify an aggregation ...

**Keywords:** ODL, ODMG, OIF, OODBMS, aggregation hierarchy, composite objects

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Saharon Rosset

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

**Publisher:** ACM Press

Full text available: pdf(548.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Several authors have suggested viewing boosting as a gradient descent search for a good fit in function space. At each iteration observations are re-weighted using the gradient of the underlying loss function. We present an approach of weight decay for observation weights which is equivalent to "robustifying" the underlying loss function. At the extreme end of decay this approach converges to Bagging, which can be viewed as boosting with a linear underlying loss function. We illustrate the pract ...

**Keywords:** bagging, boosting, robust fitting

2 [Dynamic expression trees and their applications](#)



Robert F. Cohen, Roberto Tamassia

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1 [The theory of parsing, translation, and compiling](#)

Alfred V. Aho, Jeffrey D. Ullman  
January 1972 Book

**Publisher:** Prentice-Hall, Inc.

Full text available: pdf(98.28 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

**From volume 1 Preface (See Front Matter for full Preface)**

This book is intended for a one or two semester course in compiling theory at the senior or graduate level. It is a theoretically oriented treatment of a practical subject. Our motivation for making it so is threefold.

(1) In an area as rapidly changing as Computer Science, sound pedagogy demands that courses emphasize ideas, rather than implementation details. It is our hope that the algorithms and concepts presented ...

2 [More on Fortran 8X pointer proposals](#)



Loren Meissner

April 1988 **ACM SIGPLAN Fortran Forum**, Volume 7 Issue 1

**Publisher:** ACM Press

Full text available: pdf(338.78 KB)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Here is a program that I wrote to test the proposals of Burch, Schonfelder, et al for adding pointers to Fortran 8X. I read a comment by Steven O. Siegfried of Saint Paul MN that "it's tough to build a binary tree with implicit [de]referencing", and I wanted to see what the problems were.

3 [A data structure for arc insertion and regular path finding](#)

Adam L. Buchsbaum, Paris C. Kanellakis, Jeffrey S. Vitter

January 1990 **Proceedings of the first annual ACM-SIAM symposium on Discrete algorithms SODA '90**

**Publisher:** Society for Industrial and Applied Mathematics

Full text available: pdf(1.01 MB)

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#### 4 Association mining



Aaron Ceglar, John F. Roddick

July 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 2

**Publisher:** ACM Press

Full text available: pdf(770.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The task of finding correlations between items in a dataset, association mining, has received considerable attention over the last decade. This article presents a survey of association mining fundamentals, detailing the evolution of association mining algorithms from the seminal to the state-of-the-art. This survey focuses on the fundamental principles of association mining, that is, itemset identification, rule generation, and their generic optimizations.

**Keywords:** Data mining, association mining

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